



TFW / 1255

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF:

VELLIYUR NOTT MALLIKARJUNA RAO ET. AL.

CASE NO.: CL2099USPCT

APPLICATION NO.: 10/523228

CONFIRMATION NO.: UNKNOWN

GROUP ART UNIT: UNKNOWN

EXAMINER: UNKNOWN

FILED: January 31, 2005

FOR: COBALT-SUBSTITUTED CHROMIUM OXIDE COMPOSITIONS, THEIR
PREPARATION, AND THEIR USE AS CATALYSTS AND CATALYST
PRECURSORS

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with 37 C.F.R. §§1.97 and 1.98, Applicants bring to the attention of the U.S. Patent and Trademark Office the information listed on the enclosed PTO/SB/08A and/or PTO/SB/08B forms. A copy of the information, if required, is also enclosed. Applicants note however that U.S. Application No. 10/523,227 represents a national filing of WO 2004/018396, U.S. Application No. 10/523,223 represents a national filing of WO 2004/018397 and U.S. Application No. 10/523,226 represents a national filing of WO 2004/018095; and no additional copies of those specifications are enclosed. Additional copies will be provided at the request of the Examiner. A copy of the PCT International Search Report is also enclosed. Consideration of the information is requested under 37 C.F.R. § 1.56 and this information is submitted in accord with the provisions of §1.97(b): within three months of filing the national application under 37 C.F.R. §1.53(d), or entry into the national stage under 37 C.F.R. §1.491, or before the mailing of a first Office Action on the merits, or

before the mailing of a first Office Action on the merits after filing a Request for Continued Examination under 37 C.F.R. §1.114.

If this Information Disclosure Statement is filed under §1.97(b) but the mailing date hereof is after the mailing of a first Office Action on the merits, the PTO is authorized to charge the fee set forth in 37 C.F.R. §1.17(p) to Deposit Account No. **04-1928** (E. I. du Pont de Nemours and Company) in order to complete the requirements for consideration of this Information Disclosure Statement.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'D. E. Heiser', written over a horizontal line.

DAVID E. HEISER

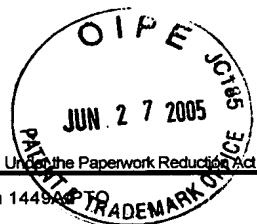
Attorney for Applicants

Registration No.: 31,366

Telephone: (302) 892-1926

Facsimile: (302) 892-7949

Dated: June 22, 2005



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449 and PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	10/523228
Filing Date	January 31, 2005
First Named Inventor	VELLIYUR NOTT MALLIKARJUNA RAO
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	CL2099USPCT

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number – Kind Code ² (if known)				
		US -	3,258,500	06-28-1966	SWAMER ET. AL.	
		US -	3,992,325	11-16-1976	JOACHIM FRIEDRICH KNAAK	
		US -	5,036,036	07-30-1991	JAN J. LEROU	
		US -	2001/11061 A1	08-02-2001	SCOTT ET. AL.	
		US -	5,185,482	02-09-1993	LEO E. MANZER ET. AL.	
		US -	5,559,069	09-24-1996	RAO ET. AL.	
		US -	4,843,181	06-27-1989	GUMPRECHT ET. AL.	
		US -	10/523,227			
		US -	10/523,223			
		US -	5,345,017	09-06-1994	RAO ET. AL.	
		US -	5,763,698	06-09-1998	MANZER ET. AL.	
		US -	3,873,471	03-25-1975	KOBERSTEIN ET. AL.	
		US -	5,155,082	10-13-1992	TUNG ET. AL.	
		US -	5,446,215	08-29-1995	COOK ET. AL.	
		US -	3,978,145	08-31-1976	KNAAK	
		US -	10/523,226			
		US -				
		US -				
		US -				
		US -				

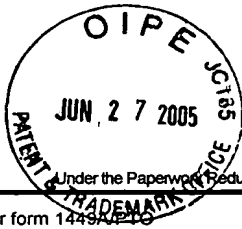
FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T _e
		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
			AU-A-80340/94	06-15-1995	ELF ATOCHEM S.A.		<input type="checkbox"/>
			AU-A-29972/92	06-10-1993-	ELF ATOCHEM S.A.		<input type="checkbox"/>
			EP 0 641 598 A2	03-08-1995	SHOWA DENKO KABUSHIKI		<input type="checkbox"/>
			EP 1 038 858 A1	09-27-2000	DAIKIN INDUSTRIES		<input type="checkbox"/>
			WO 2004/018397	03-04-2004	DU PONT		<input type="checkbox"/>
			WO 2004/018095 A1	03-04-2004	DU PONT		<input type="checkbox"/>
			WO 2004/018396 A1	03-04-2004	DU PONT		<input type="checkbox"/>
			EP 0 486 333	05-20-1992	ELF ATOCHEM S.A.		<input checked="" type="checkbox"/>
			JP 04-262372	09-17-1992	YUASA BATTERY		<input type="checkbox"/>

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



PTO/SB/08B (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449, 1/95

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 2

Complete if Known

Application Number	10/523228
Filing Date	January 31, 2005
First Named Inventor	VELLIYUR NOTT MALLIKARJUNA RAO ET. AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	CL2099USPCT

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		MUSIC ET. AL., FORMATION AND CHARACTERIZATION OF THE SOLID SOLUTIONS, J. MATERIALS SCIENCE, 1996, PAGES 4067-4076, VOL. 31	<input type="checkbox"/>
		BHATTACHARYA ET. AL., AN X-RAY DIFFRACTION AND MOSSBAUER STUDY OF NANO-CRYSTALLINE FE2O2-CR2O3 SOLID SOLUTIONS, J. MATERIALS SCIENCE, 1997, PAGES 560-577, VOL. 32	<input type="checkbox"/>
		BRACCONI ET. AL., ETUDE DES PROPRIETES STRUCTURALES DES OXYDES SPINELLES DES SYSTEMS CO-O ET, ANN. CHIM. FR., 1979, PAGES 331-338, VOL. 4	<input checked="" type="checkbox"/>
		HANCK ET. AL., STRUCTURAL AND THERMAL STABILITY STUDIES OF LIZN2CRO4 AND CO2CRO4,J. INORG. NUCL. CHEM., 1971, PAGES 63-73, VOL. 33	<input type="checkbox"/>
		CASTIGLIONI ET. AL., SYNTHESIS AND PROPERTIES OF SPINEL-TYPE CO-CU-MG-ZN-CR MIXED OXIDES, J. SOLID STATE CHEMISTRY, 2000, PAGES 526-532, VOL. 152	<input type="checkbox"/>
		NOWOTNY ET. AL., SEGREGATION AND NEAR-SURFACE DIFFUSION FOR UNDOPED AND CR-DOPED CoO, J. AM. CERAM. SOC., 1982, PAGES 192-196, VOL. 65	<input type="checkbox"/>
		ZHANG ET. AL., COBALT DOPED CHROMIUM OXIDES AS CATHODE MATERIALS FOR SECONDARY LITHIUM BATTERIES, JOURNAL OF POWER SOURCE, 1999, PAGES 121-127, VOL. 83	<input type="checkbox"/>
		SHANNON ET. AL., EFFECTIVE IONIC RADII IN OXIDES AND FLUORIDES, ACTA CRYSTALLOGRAPHICA, 1969, PAGES 925-945, VOL. B25	<input type="checkbox"/>
		CHEMICAL ABSTRACT VOL. 118:9 397, VOL 118, PAGE 138 (1993)	<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>

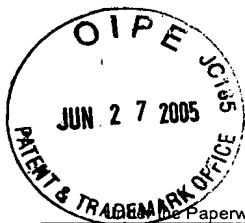
Examiner
Signature

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



Certificate of Mailing under 37 CFR 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

on

Jun 23, 2005

Date

Deborah M. Jones

Signature

DEBORAH M. JONES

Typed or printed name of person signing Certificate

(302) 992-4943

Registration Number, if applicable

Telephone Number

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

10/523228

CL2099USPCT

INFORMATION DISCLOSURE STATEMENT

PTO/SB/08A (1)

PTO/SB/08B (1)

COPIES OF REFERENCES

POSTCARD

Page ___ of ___